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August 20, 2003

CERTIFICATE OF MAILING 37 C.F.R 1.8	
I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail in an envelope addressed to: MS DD, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date below:	
August 20, 2003	_____ Michael R. Krawzsenek Michael R. Krawzsenek
Date	

MS DD
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

RE: *U.S. Patent Application No. Unknown entitled "A DIAGNOSTIC TEST FOR INFECTION WITH A SPIROCHETE BORNE BY AMBLYOMMA AMERICANUM" – Alan G. Barbour and Carol Carter*
Our reference: UTSK:352USC1
Client reference: 1999-14-CON

Sir:

Enclosed for filing in the above-referenced patent application is an Information Disclosure Statement and Form PTO-1449.

No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to the enclosed materials, the Commissioner is authorized to deduct the appropriate fees from Fulbright & Jaworski Deposit Account No.: 50-1212/UTSK:352USC1.

Please date stamp and return the enclosed postcard evidencing receipt of these materials.

Respectfully submitted,

Michael R. Krawzsenek
Reg. No. 51,898

MRK/kmv
Encl: as noted
25323896.1



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Alan G. Barbour and Carol Carter

Serial No.: 10/620,795

Filed: July 14, 2003

For: A DIAGNOSTIC TEST FOR INFECTION
WITH A SPIROCHETE BORNE BY
AMBLYYOMMA AMERICANUM

Group Art Unit: Unknown

Examiner: Unknown

Atty. Dkt. No.: UTSK:352USC1

CERTIFICATE OF MAILING
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August 20, 2003
Date


Michael R. Krawzenek

INFORMATION DISCLOSURE STATEMENT

MS DD

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record.

In accordance with 37 C.F.R. §§ 1.97(g), (h), this Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be construed to be an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

The present Information Disclosure Statement is being filed prior to the receipt of a first Official Action reflecting an examination on the merits, and hence is believed to be timely filed in accordance with 37 C.F.R. § 1.97(b). No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to these materials, the Commissioner is authorized to deduct the appropriate fees from Fulbright & Jaworski Deposit Account No.: 50-1212/UTSK:352USC1.

This application is a continuation application of Serial No. 09/275,506, filed March 24, 1999, which is a divisional of prior U.S. Application Serial No. 08/437,013 filed on May 8, 1995, now issued as U.S. Patent No. 5,932,220, and is relied upon for an earlier filing date under 35 U.S.C. § 120. In accordance with Rule 37 C.F.R. § 1.98(d) copies of the listed documents are not enclosed as they have been previously cited by or submitted to the Patent and Trademark Office in prior application Serial No. 09/275,506 and 08/437,013.

Applicants respectfully request that the listed documents be made of record in the present case.

Respectfully submitted,



Michael R. Krawzenek
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Attorney for Applicants

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Date: August 20, 2003

Form PTO-1449 (modified)

Atty. Docket No.
UTSK:352USC1Serial No.
10/620,795

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PATENT & TRADEMARK OFFICE

List of Patents and Publications for Applicant's
INFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)

Applicant
Alan G. Barbour
Carol CarterFiling Date:
July 14, 2003Group:
UnknownU.S. Patent Documents
*See Page 1*Foreign Patent Documents
*See Page 1*Other Art
*See Page 1***U.S. Patent Documents**

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
	A1	5,279,938	01/18/94	Rosa	435	6	5/18/92
	A2	5,283,175	02/01/94	Weaver <i>et al.</i>	435	6	4/15/91
	A3	5,618,533	4/8/97	Flavell <i>et al.</i>	424	184	12/10/93

Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
	B1	0 421 725 A1	04/10/91	European			
	B2	WO 91/19814	12/26/91	PCT			
	B3	WO 92/00055	01/09/92	PCT			
	B4	WO 92/12235	07/23/92	PCT			

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C1	"Lyme Disease Surveillance - United States, 1989-1990," <i>MMWR</i> , 40(25), June 1991.
	C2	"Tickborne Diseases - Georgia, 1989," <i>MMWR</i> , 39(23):397-399, June 1990.
	C3	Barbour and Hayes, "Biology of <i>Borrelia</i> Species," <i>Microbiological Reviews</i> , 50(4):381-400, December 1986.
	C4	Barbour <i>et al.</i> , "A <i>Borrelia</i> -Specific Monoclonal Antibody Binds to a Flagellar Epitope," <i>Infection and Immunity</i> , 52(5):549-554, May 1986.
	C5	Barbour, "Isolation and Cultivation of Lyme Disease Spirochetes," <i>The Yale Journal of Biology and Medicine</i> , 57:521-525, 1984.
	C6	Berland <i>et al.</i> , "Molecular Characterization of the Humoral Response to the 41-Kilodalton Flagellar Antigen of <i>Borrelia burgdorferi</i> , the Lyme Disease Agent," <i>Infection and Immunity</i> , 59(10):3531-3535, October 1991.

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EXAMINER:

DATE CONSIDERED:

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Other Art

See Page 1

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Exam. Init.	Ref. Des.	Citation
	C7	Bloemer <i>et al.</i> , "Management of Lone Star Ticks (Acari: Ixodidae) in Recreational Areas with Acaricide Applications, Vegetative Management, and Exclusion of White-Tailed Deer," <i>Journal of Medical Entomology</i> , 27(4):543-550, July 1990.
	C8	Boehringer Mannheim Biochemicals, Catalog pp. 502- and B-7—B-8, 1991.
	C9	Fukunaga <i>et al.</i> , "Genetic and Phenotypic Analysis of Borrelia Miyamotoi sp. nov., Isolated from the Ixodid Tick <i>Ixodes persulcatus</i> , the Vector for Lyme Disease in Japan," <i>International Journal of Systematic Bacteriology</i> , 45(4):804-810, October 1995.
	C10	Gassmann <i>et al.</i> , "Analysis of the <i>Borrelia burgdorferi</i> GeHo fla gene and antigenic characterization of its gene product," <i>J. Bacteriology</i> , 173:1452-1459, 1991.
	C11	Hansen <i>et al.</i> , "Measurement of Antibodies to the <i>Borrelia burgdorferi</i> Flagellum Improves Serodiagnosis in Lyme Disease," <i>Journal of Clinical Microbiology</i> , 26(2):338-346, February 1988.
	C12	Hansen, "Lyme Neuroborreliosis: Improvements of the Laboratory Diagnosis and a Survey of Epidemiological and Clinical Features in Denmark 1985-1990," <i>Acta Neurol. Scand. Suppl. (DENMARK)</i> . 151:1-44, 1994.
	C13	International Search Report dated August 27, 1996.
	C14	Jauris-Heipke <i>et al.</i> , "Genetic heterogeneity of the genes coding for the outer surface protein C (OspC) and the flagellin of <i>Borrelia burgdorferi</i> ," <i>Med. Microbiol. Immunol.</i> , 182:37-50, 1993.
	C15	Kennell <i>et al.</i> , "Principles and practices of nucleic acid hybridization," <i>Prog. Nuc. Acid Res. Mol. Biol.</i> , 11:259-301, 1971.
	C16	Kocan <i>et al.</i> , "Isolation of <i>Borrelia-burgdorferi</i> (Spirochaetales: Spirochaetaceae) from <i>Ixodes scapularis</i> and <i>Dermacentor albipictus</i> Ticks (Acari: Ixodidae) in Oklahoma," <i>Journal of Medical Entomology</i> , 29(4):630-633, July 1992.
	C17	Maina <i>et al.</i> , "An <i>Escherichia coli</i> vector to express and purify foreign proteins by fusion to and separation from maltose-binding protein," <i>Gene</i> , 74:365-373, 1988.
	C18	Marconi <i>et al.</i> , "Phylogenetic Analysis of the Genus <i>Borrelia</i> : a Comparison of North American and European Isolates of <i>Borrelia Burgdorferi</i> ," <i>Journal of Bacteriology</i> , 174(1):241-244, January 1992.

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U.S. Patent Documents

Foreign Patent Documents

Other Art

See Page 1

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See Page 1

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C19	Mariman <i>et al.</i> , "Complete nucleotide sequence of the human creatine kinase B gene," <i>Nucl. Acids Res.</i> , 17:6385, 1989.
	C20	Masters, "Erythema Migrans. Rash as Key to Early Diagnosis of Lyme Disease," <i>Postgraduate Medicine</i> , 94(1):133-142, July 1993.
	C21	Maupin <i>et al.</i> , "Landscape Ecology of Lyme Disease in a Residential Area of Westchester County, New York," <i>American Journal of Epidemiology</i> , 133(11):1105-1113, 1991.
	C22	Mukolwe <i>et al.</i> , "Attempted Transmission of <i>Borrelia-burgdorferi</i> (Spirochaetales: Spirochaetaceae) (JDI Strain) by <i>Ixodes-scapularis</i> (Acari: Ixodidae), <i>Dermacentor-variabilis</i> , and <i>Amblyomma-americum</i> , <i>Journal of Medical Entomology</i> , 29(4):673-677, July 1992.
	C23	Noppa <i>et al.</i> , "Expression of the Flagellin Gene in <i>Borrelia</i> is Controlled by an Alternative σ Factor," <i>Microbiology</i> , 141:85-93, 1995.
	C24	Oliver <i>et al.</i> , "Isolation and Transmission of the Lyme Disease Spirochete From the Southeastern United States," <i>Proc. Natl. Acad. Sci. USA</i> , 90:7371-7375, August 1993.
	C25	Piesmand and Sinsky, "Ability of <i>Ixodes scapularis</i> , <i>Dermacentor variabilis</i> , and <i>Amblyomma americanum</i> (Acari: Ixodidae) to Acquire, Maintain, and Transmit Lyme Disease Spirochetes (<i>Borrelia burgdorferi</i>)," <i>Journal of Medical Entomology</i> , 25(5):336-339, December 1988.
	C26	Relman, "The Identification of Uncultured Microbial Pathogens," <i>The Journal of Infectious Diseases</i> , 168:1-8, July 1993.
	C27	Ryder <i>et al.</i> , "Inability of <i>Ixodes cookei</i> and <i>Amblyomma americanum</i> Nymphs (Acari: Ixodidae) To Transmit <i>Borrelia burgdorferi</i> ," <i>Journal of Medical Entomology</i> , 29(3):525-530, May 1992.
	C28	Schulze <i>et al.</i> , <i>Amblyomma americanum</i> : A Potential Vector of Lyme Disease in New Jersey," <i>Science</i> , 224:601-603, May 1984.
	C29	Sigal and Curran, "Lyme Disease: A Multifocal Worldwide Epidemic," <i>Annu. Rev. Publ. Health</i> , 12:85-109, 1991.
	C30	Sloma <i>et al.</i> , "Cloning and characterization of the gene for an additional extracellular serine protease of <i>Bacillus subtilis</i> ," <i>J. Bacteriology</i> , 173:6889-6895, 1991.

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